

**To:**   
**Cc:** Paula Schmittdiel (Schmittdiel.Paula@epa.gov)[Schmittdiel.Paula@epa.gov]  
**From:** Peterson, Cynthia  
**Sent:** Mon 11/2/2015 10:21:29 PM  
**Subject:** FW:

Hello,

Paula asked that I respond to your email below. In evaluating soils for contamination with heavy metals, a number of factors are considered in establishing site-specific concentrations that would prompt human health concerns and/or warrant additional investigation. The EPA is currently consulting with the Town of Silverton about a potential initial sampling effort that will inform decision making. It is premature to establish site-specific criteria at this time.

Best regards,

Cynthia

Cynthia Peterson

Community Involvement Coordinator

Public Affairs and Community Involvement

U.S. Environmental Protection Agency, Region VIII

1595 Wynkoop St. (8OC-PAI)

Denver, CO 80202-1129

303-312-6879 -- direct dial

**From:** Schmittdiel, Paula  
**Sent:** Thursday, October 29, 2015 12:18 PM  
**To:** Peterson, Cynthia  
**Subject:** FW:

Paula Schmittiel

Remedial Project Manager

U.S. Environmental Protection Agency

1595 Wynkoop St.

Denver, CO 80202

Office: 303-312-6861

Fax: 303-312-7151

Cell: 720-951-0795

**From:**  **Citizen Name/Ex. 6**

**Sent:** Thursday, October 01, 2015 8:48 AM

**To:** Schmittiel, Paula

**Subject: Re:**  **Citizen Name/Ex. 6**

Good morning, Paula.

For the elements listed below under item #5 of your e-mail, what are the concentrations of each that might be found from a 5-point soil composite sample that would prompt concern for human exposure to heavy metals from mining related activities, and perhaps call for further sampling such as by coring as described in item #3?

Perhaps you could indicate those concentrations by reply e-mail imbedded into this list?

Al

Be

Ca

Cr

Cu

Fe

Mg

Mn

Zn

Sb

As

Cd

Pb

Ni

Se

Ag

Tl

Hg

Thank you,

**Citizen Name/Ex. 6**

**Citizen Name/Ex. 6**

**Personal Address/Ex. 6**

**Personal Phone/Ex. 6**

**From:** "Schmittdiel, Paula" <Schmittdiel.Paula@epa.gov>  
**Date:** Monday, March 30, 2015 3:27 PM  
**To:** **Citizen Name/Ex. 6**  
**Cc:** "Peterson, Cynthia" <Peterson.Cynthia@epa.gov>, "Fagen, Elizabeth" <Fagen.Elizabeth@epa.gov>, "Wharton, Steve" <Wharton.Steve@epa.gov>  
**Subject:** RE: **Citizen Name/Ex. 6**

Citizen Name/Ex. 6 I will send you the link to the USGS paper that the images are from in a separate email. But I can answer your questions about the soils sampling right now.

1. When EPA collects soil samples in urban/residential areas it is to evaluate the potential for human exposure to heavy metals from mining related activities – material handling of ore, milling and smelting. Our sampling procedure is to collect a 5 point soil composite sample from all areas of the property in the 0-2 inches.
2. The exact number of samples will vary depending on if the property is greater than 5000 sq ft or less than 5000 sq. ft.
3. We also collect a core samples that is divided into 3 samples – 0-6 inches, 6-12 inches and 12-18 inches to determine if there is contamination at depth. Additional samples can be collected from the drip zone around the house.
4. Samples are analyzed using XRF (X-ray Fluorescence) and are also sent to a lab for wet chemistry analysis. Samples sent to a lab are analyzed using methods SE-846, Method 7473 and methods 200.7 and 200.8. Samples analyzed by XRF use method 6200 for field portable XRF instrumentation.
5. For historical mining districts such as the Upper Animas watershed including Silverton, EPA analyzes the full suite of heavy metals including aluminum, beryllium, calcium, chromium, copper, iron, magnesium, manganese, zinc, antimony, arsenic, cadmium, lead, nickel, selenium, silver, thallium and mercury.

Paula Schmittdiel

Remedial Project Manager

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**From:**  **Citizen Name/Ex. 6**

**Sent:** Monday, March 30, 2015 12:53 PM

**To:** Schmittdiel, Paula

**Subject:**  **Citizen Name/Ex. 6**

Greetings, Ms Schmittdiel.

I missed your presentation to the Silverton Board of Trustees for having been out of town, and only caught up with the matter on my return and a chance to read the local newspaper's reportage.

The image that accompanied the newspaper, described as an enhanced aerial photo indicating possible metal contaminated sites in and around Silverton, was indistinct. Do you have a high-resolution image(s) of same that you could transmit to me via e-mail, along with pertinent legend(s)?

Also, the newspaper account explains you (i.e. EPA) would like to conduct some initial soil sampling around town. Would you describe for me the following:

1. Type of initial sampling and depth (I presume soil cores, or backhoe ditch... to what depth?)
2. Sample assay/analysis method
3. Particular elements of interest or concern

Hope my request for information is not too burdensome, but equally hoping you can accommodate.

Thank you,

**Citizen Name/Ex. 6**

**Personal Address/Ex. 6**

**Personal Phone/Ex. 6**